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| APPLICATION NO. | FILING DATE                         | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|-----------------|-------------------------------------|-----------------------|---------------------|------------------|--|
| 09/923,211      | 08/06/2001                          | Travis Wayne Cavender | 2001-IP-004118      | 8979             |  |
| 20558           | 7590 12/16/2003                     |                       | EXAMINER            |                  |  |
|                 | R & SMITH P. C.<br>CENTRAL EXPRESSW | /AV                   | SAFAVI, MICHAEL     |                  |  |
| SUITE 230       | SENTRAL DAI RESS                    |                       | ART UNIT            | PAPER NUMBER     |  |
| PLANO, TX       | 75074                               |                       | 3673                |                  |  |

DATE MAILED: 12/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |  |  |   |   | <u></u> |  |  |
|--|--|--|---|---|---------|--|--|
| •  |  | Applicatio   | n No.   | Applicant(s)  | : .     |  |  |
| Office Action Summary  |  | 09/923,21  | 1   | CAVENDER, TRAVIS WAYN   | E       |  |  |
|  |  | Examiner   |   | Art Unit  |         |  |  |
|  |  | M. Safavi  |   | 3673  |         |  |  |
| Period fo  | The MAILING DATE of this communication app<br>or Reply   | ears on the  | cover sheet with the c  | orrespondence address   |         |  |  |
| THE I - External form of the control | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).  | 36(a). In no eve<br>y within the statu<br>will apply and will<br>e, cause the appli                                | nt, however, may a reply be tim<br>tory minimum of thirty (30) day:<br>l expire SIX (6) MONTHS from<br>cation to become ABANDONE  | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).                                    |         |  |  |
| 1)⊠  | Responsive to communication(s) filed on 14 O   | ctober 2003  | <u>3</u> .  |   |         |  |  |
| 2a) <u></u> □  | This action is <b>FINAL</b> . 2b)⊠ This a  | action is no   | n-final.  |   |         |  |  |
| 3)□  | Since this application is in condition for allowar closed in accordance with the practice under E  |  |   |   | 1 +     |  |  |
| Dispositi  | on of Claims   |  |   |   |         |  |  |
| 5)□<br>6)⊠<br>7)□  | Claim(s) 36-63 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  (i) Claim(s) is/are allowed.  (ii) Claim(s) 36-55 and 59-61 is/are rejected.  (iii) Claim(s) 56-58,62 and 63 is/are objected to.  (iii) Claim(s) are subject to restriction and/or election requirement.  |  |   |   |         |  |  |
| Applicati  | on Papers  |  |   |   |         |  |  |
| 10)  | The specification is objected to by the Examine The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct   | epted or b)[<br>drawing(s) bo<br>tion is require   | e held in abeyance. See<br>ed if the drawing(s) is obj  | e 37 CFR 1.85(a).<br>sected to. See 37 CFR 1.121(d).  | · :     |  |  |
| -  | The oath or declaration is objected to by the Exunder 35 U.S.C. §§ 119 and 120   | caminer. No  | te the attached Office  | Action of form PTO-152.   |         |  |  |
| 12) a) l  12) a) l  13) A  Si  3  a  14) A   | Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list acknowledgment is made of a claim for domestic ince a specific reference was included in the first 7 CFR 1.78.  1) The translation of the foreign language proacknowledgment is made of a claim for domestic acknowledgment is made of a c | s have beer s have beer rity docume u (PCT Rule of the certific priority unst sentence pvisional appic priority un | n received. In received in Application received in Application ts have been received 17.2(a)). It is ideal copies not received and a substitution of the specification or oblication has been received and a substitution of the specification. | on No  ed in this National Stage  ed.  e) (to a provisional application in an Application Data Sheeleived.  and/or 121 since a specific | et.     |  |  |
| re   | eference was included in the first sentence of the   | ie specificat  | юн от ит ан Аррисайо  | n Data Sneet, 37 CFK 1.78.  |         |  |  |
| 2) Notic   | t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449) Paper No(s)  | ·  |   | (PTO-413) Paper No(s)<br>atent Application (PTO-152)  | ·.<br>· |  |  |

Application/Control Number: 09/923,211 Page 2

Art Unit: 3673

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 14, 2003 has been entered.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 36-51 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 36, lines 6-7 appear to repeat a step recited in lines 4-5. Are there two production wellbores extending into the subterranean gas storage formation? Lines 8 and 10, "the storage wellbore" lacks an antecedent within the claim.

Claims 37-42, 45, and 49, for example, do not provide antecedent basis for "the storage wellbore".

Art Unit: 3673

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 4. Claims 36, 37, 39-44, 49, 52-55, and 59 are rejected under 35 U.S.C. 102(e) as being anticipated by Donovan et al. Donovan et al. discloses, Fig. 2, a method involving extension of a production wellbore and a storage wellbore, any of 20b', 20b'', 20b''', or any of 20, intersecting the production and storage well bore at a junction leading into a main wellbore 10, (or 20b in the case of wellbores 20b', 20b'', and 20b'''), though 20b serves as a wellbore, and injecting and withdrawing gas from the wellbores, col. 3, lines 45-48 and col. 6, line 66 to col. 7, line 6. Valves are included for control of gas flow within each or any of the tubular strings within each respective wellbore, col. 6, lines 6-10. Injection and production tubular strings are located within the main wellbore as along 26.

Application/Control Number: 09/923,211 Page 4

Art Unit: 3673

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 50, 51, 60, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Donovan et al. Donovan et al. teaches, Fig. 6, various arrangement of pipes or tubular strings within the main wellbore. To have formed any of the tubular strings within the main wellbore as a production tubular string and an injection tubular string formed coaxially with the injection tubular string formed within the production tubular string, thus allowing for a compact arrangement within the main wellbore, would have constituted an obvious expedient to one having ordinary skill in the art at the time the invention was made as taught by Fig. 6 of Donovan et al.
- 7. Claims 56-58, 62, and 63 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3673

8. Claims 38 and 45-48 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Safavi whose telephone number is (703) 308-2168.

MICHAEL SAFAVI PRIMARY EXAMINER ART UNIT 354